
	Ultra 2/ Ultra Enterprise 2 Model 1200	Ultra 2/ Ultra Enterprise 2 Model 1300	Ultra 2/ Ultra Enterprise 2 Model 2170	Ultra 2/ Ultra Enterprise 2 Model 2200	Ultra 2/ Ultra Enterprise 2 Model 2300
Packaging	Desktop	Desktop	Desktop	Desktop	Desktop
Performance SPECint95 SPECfp95 SPECbase_int95 SPECbase_fp95 AIM 3 LADDIS	Model 1200 7.72 11.40 6.90 11.10 N/A 2565	Model 1300 12.10 15.50 10.40 14.50 N/A N/A	Model 2170 6.39 11.80 N/A 10.70 N/A 3536	Model 2200 7.72 14.70 6.90 13.30 N/A 4303	Model 2300 12.30 20.20 10.50 17.70 N/A N/A
Performance Architecture Clock rate Cache on-chip Cache external No. of Processors	UltraSPARC-I 200MHz 16KB I-cache, 16KB D-cache 1MB 1	UltraSPARC-II 300MHz 16KB I-cache, 16KB D-cache 2MB 1	UltraSPARC-I 167MHz 16KB I-cache, 16KB D-cache 512KB per CPU 2	UltraSPARC-I 200MHz 16KB I-cache, 16KB D-cache 1MB 2	UltraSPARC-II 300MHz 16KB I-cache, 16KB D-cache 1MB 2
System Memory Standard Maximum Memory type Bandwidth Tot SIMM memory slots SIMM size	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	128MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	256MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)	256MB 2GB (w/ 128MB SIMMs) ECC 288 bits 16 16, 32, 64, 128MB (must be in groups of 4)
Disk Storage SCSI bandwidth Standard Maximum internal Maximum external	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 2.1GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB	20MB/sec. (16-bit fast/wide) 4.2GB 8.4GB 273GB
I/O Architecture SBus slots Graphics (UPA Slots) Serial ports Parallel ports Audio Speaker	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal	4 (32/64-bit, 25MHz) 1 (83/100MHz) 2 1 16-bit Internal
Network Ports AUI Ethernet Twisted-pair Ethernet ISDN BRI	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional	Yes (requires MII adapter) Yes (10/100 Mbps) Optional
Supported Graphics Options	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D	Creator, Creator3D
Solaris License	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later	Solaris 2.5.1 or later

Ultra 2 and Ultra Enterprise 2 - Model 1200
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Ultra 2 Model 1200 with One 200 MHz UltraSPARC-I Processor and 1 MB External Cache:

Part Number	Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS SYSTEM			
A14-UCB1-1E-128AC	Creator, 20" color monitor, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$20,495	A
DESKTOP CREATOR3D GRAPHICS SYSTEM			
A14-UCB1-1F-128AC	Creator3D, 20" color monitor, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$21,495	A
SERVER CONFIGURATION			
A14-UCB1-9S-128CD	Ultra Enterprise 2 Model 1200 server with 128MB, 4GB SCSI-2 disk, 644MB SunCD 12, Fast Ethernet, and Solaris server license.	\$18,295	A

NOTES:

- All Ultra 2 Model 1200 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

Upgrades on next page.

Ultra 2 and Ultra Enterprise 2 - Model 1200 (Upgrades)

Upgrades to Ultra 2 Model 1200

From	Part Number and Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS UPGRADES			
Any SPARCstation	UFS-UCB1-1E-128AC Full system upgrade to Ultra 2 Model 1200 with 20" color monitor, Creator graphics, 128MB, 4.2GB fast internal disk	\$18,350	A*
SPARCstation 10	US10UCB1-9E-128AC Chassis upgrade to Ultra 2 Model 1200 with Creator graphics, 128MB, 4.2GB fast internal disk	\$14,650	A*
SPARCstation 4 or 5	US5-UCB1-9E-128NN Chassis upgrade to Ultra 2 Model 1200 with Creator graphics, 128MB.	\$13,800	A*
SPARCstation 20	US20UCB1-9E-000NN Chassis upgrade to Ultra 2 Model 1200 with Creator graphics.	\$11,800	A*
Ultra 1 - 140 or 170	U11-UCB1-9E-000NN Chassis upgrade to Ultra 2 Model 1200 with Creator graphics.	\$10,300	A*
DESKTOP CREATOR3D GRAPHICS UPGRADES			
Any SPARCstation	UFS-UCB1-1F-128AC Full system upgrade to Ultra 2 Model 1200 with 20" color monitor, Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$19,350	A*
SPARCstation 10	US10UCB1-9F-128AC Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$15,650	A*
SPARCstation 20	US20UCB1-9F-000NN Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics.	\$12,800	A*
Ultra 1 - 140 or 170	U11-UCB1-9F-000NN Chassis upgrade to Ultra 2 Model 1200 with Creator3D graphics.	\$11,300	A*
SERVER UPGRADES			
Any SPARCserver	UG-S-14UCB19S128CD Chassis upgrade to Ultra Enterprise 2 Model 1200 with 128MB, 4GB SCSI-2 disk, and SunCD 12.	\$15,995	A*
SPARCserver 20	US20UCB1-9S-000ND Chassis upgrade to Ultra Enterprise 2 Model 1200 with SunCD 12, no memory, no disk.	\$9,300	A*
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	U12-UCB1-9N-000NN Chassis upgrade to Ultra 2 Model 1200 or Ultra Enterprise 2 Model 1200, no memory, no disk.	\$8,300	A*
MODULE UPGRADE			
Ultra 1 Model 1170	UG-M1170-M1200 Module upgrade to Ultra 2 Model 1200.	\$3,995	A*

NOTES:

- All Ultra 2 Model 1200 upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

* Maximum discount may apply.

Ultra 2 and Ultra Enterprise 2 - Model 1300

Ultra 2 Model 1300 with One 300 MHz UltraSPARC-II Processor and 2 MB External Cache:

Part Number	Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS SYSTEM			
A14-UEC1-1E-128AC	20" color monitor, Creator, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$26,495	A
DESKTOP CREATOR3D GRAPHICS SYSTEM			
A14-UEC1-1F-128AC	20" color monitor, Creator 3D, 128MB, 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk	\$27,495	A
SERVER CONFIGURATION			
A14-UEC1-9S-128CD	Ultra Enterprise 2 Model 1300 server with 128MB, 4GB SCSI-2 disk, 644MB SunCD 12	\$24,295	A

Upgrades to Ultra 2 Model 1300

From	Part Number and Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS UPGRADES			
Any SPARCstation	UGFS-UEC1-1E-128AC Full system upgrade to Ultra 2 Model 1300 with 20" color monitor, Creator, 128MB, 4.2GB fast internal disk.	\$23,995	A*
SPARCstation 10	UG10-UEC1-9E-128AC Chassis upgrade to Ultra 2 Model 1300 with 128MB, 4.2GB fast internal disk, and Creator graphics.	\$20,650	A*
SPARCstation 20	UG20-UEC1-9E-000NN Chassis upgrade to Ultra 2 Model 1300 with Creator graphics, no memory, no disk.	\$17,800	A*
Ultra 1 - 140 or 170	UA11-UEC1-9E-000NN Chassis upgrade to Ultra 2 Model 1300 with Creator graphics, no memory, no disk.	\$16,300	A*
DESKTOP CREATOR3D GRAPHICS UPGRADES			
Any SPARCstation	UGFS-UEC1-1F-128AC Full system upgrade to Ultra 2 Model 1300 with 20" color monitor, Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$24,995	A*
SPARCstation 10	UG10-UEC1-9F-128AC Chassis upgrade to Ultra 2 Model 1300 with Creator3D graphics, 128MB, 4.2GB fast internal disk.	\$21,650	A*
DESKTOP/SERVER UPGRADES			
Any SPARCserver	UG-S-14UEC19S128CD Chassis upgrade to Ultra Enterprise 2 Model 1300 with 128MB, 4.2GB SCSI-2 disk, and SunCD 12.	\$21,795	A*
SPARCserver 20	US20UEC1-9S-000ND Chassis upgrade to Ultra Enterprise 2 Model 1300 with SunCD 12, no memory, no disk.	\$15,300	A*
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	UA12-UEC1-9N-000NN Chassis upgrade to Ultra 2 Model 1300 or Ultra Enterprise 2 Model 1300, no graphics, no memory, no disk.	\$14,300	A*
MODULE UPGRADE			
Ultra 1 Model 1170 1200 module	UG-M1XXX-M1300 Module upgrade to Ultra 2 Model 1300. CPU only.	\$6,995	A*

NOTES: All Ultra 2 Model 1300 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

NOTES: All Ultra 2 Model 1300 upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

* Maximum discount may apply.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Ultra 2 and Ultra Enterprise 2 - Model 2170

Ultra 2 Model 2170 with Two 167 MHz UltraSPARC-I Processors and 512KB External Cache Per Processor:

Part Number	Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS SYSTEM			
A14-UBA2-1E-128AB	20" color monitor, Creator, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk	\$21,995	A
DESKTOP CREATOR3D GRAPHICS SYSTEM			
A14-UBA2-1F-128AB	20" color monitor, Creator3D, 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disks	\$22,995	A
SERVER CONFIGURATION			
A14-UBA2-9S-128CE	Ultra Enterprise 2 Model 2170 server with 128MB, 2.1GB 7200 RPM internal fast/wide SCSI-2 disk, 644MB SunCD 12, Fast Ethernet, and Solaris server license.	\$18,995	A

NOTES: All Ultra 2 Model 2170 configurations and require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

Upgrades to Ultra 2 Model 2170:

From	Part Number and Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS UPGRADES			
SPARCstation 10	US10UBA2-9E-128AB Chassis upgrade to Ultra 2 Model 2170 with Creator graphics, 128MB, 2.1GB fast internal disk.	\$16,150	A*
SPARCstation 20	US20UBA2-9E-000NN Chassis upgrade to Ultra 2 Model 2170 with Creator graphics.	\$15,800	A*
Ultra 1 - 140 or 170	U11-UBA2-9E-000NN Chassis upgrade to Ultra 2 Model 2170 with Creator graphics.	\$14,800	A*
DESKTOP CREATOR3D GRAPHICS UPGRADES			
SPARCstation 10	UG10-14UBA29F128AB Chassis upgrade to Ultra 2 Model 2170 with Creator3D graphics, 128MB, 2.1GB fast internal disk.	\$17,150	A*
SPARCstation 20	US20UBA2-9F-000NN Chassis upgrade to Ultra 2 Model 2170 with Creator3D graphics.	\$16,800	A*
Ultra 1 - 140 or 170	U11-UBA2-9F-000NN Chassis upgrade to Ultra 2 Model 2170 with Creator3D graphics.	\$15,800	A*
SERVER UPGRADES			
Any SPARCserver	U-S-UBA2-9S-128CE Chassis upgrade to Ultra Enterprise 2 Model 2170 with 128MB, 2.1GB Internal Fast SCSI-2 disk, and SunCD 12.	\$14,995	A*
SPARCserver 20	US20UBA2-9S-000ND Chassis upgrade to Ultra Enterprise 2 Model 2170 with SunCD 12, no memory, no disk.	\$10,995	A*
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	U12-UBA2-9N-000NN Chassis upgrade to Ultra 2 Model 2170 or Ultra Enterprise 2 Model 2170, no memory, no disk.	\$9,995	A*

NOTES: All Ultra 2 Model 2170 upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

* Maximum discount may apply.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Ultra 2 and Ultra Enterprise 2 - Model 2200
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Ultra 2 Model 2200 with Two 200 MHz UltraSPARC-I Processors and 1MB External Cache Per Processor:

Part Number	Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS SYSTEM			
A14-UCB2-1E-256AC	20" color monitor, Creator, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$27,995	A
DESKTOP CREATOR3D GRAPHICS SYSTEMS			
A14-UCB2-1F-256AC	20" color monitor, Creator 3D, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$28,995	A
A14-UCB2-1F-001AC	20" color monitor, Creator 3D, 1GB (8 x 128MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$48,995	A
SERVER CONFIGURATIONS			
A14-UCB2-9S-256CD	Ultra Enterprise 2 Model 2200 server with 256MB, 4.2GB SCSI-2 disk, 644MB SunCD 12, Fast Ethernet, and Solaris server license.	\$25,795	A
A14-UCB2-9S-512CD	Ultra Enterprise 2 Model 2200 server with 512MB, 4.2GB SCSI-2 disk, 644MB SunCD 12, Fast Ethernet, and Solaris server license.	\$33,795	A

NOTES: All Ultra 2 Model 2200 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

Upgrades on next page.

Ultra 2 and Ultra Enterprise 2 - Model 2200 (Upgrades)

Upgrades to Ultra 2 Model 2200:

From	Part Number and Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS UPGRADES			
SPARCstation 10	US10UCB2-9E-256AC Chassis upgrade to Ultra 2 Model 2200 with Creator graphics, 256MB, 4.2GB fast internal disk	\$22,150	A*
SPARCstation 20	US20UCB2-9E-000NN Chassis upgrade to Ultra 2 Model 2200 with Creator graphics	\$19,300	A*
Ultra 1 - 140 or 170	U11-UCB2-9E-000NN Chassis upgrade to Ultra 2 Model 2200 with Creator graphics	\$17,800	A*
DESKTOP CREATOR3D GRAPHICS UPGRADES			
SPARCstation 10	US10UCB2-9F-256AC Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics, 256MB, 4.2GB fast internal disk.	\$23,150	A*
SPARCstation 20	US20UCB2-9F-000NN Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics	\$20,300	A*
Ultra 1 - 140 or 170	U11-UCB2-9F-000NN Chassis upgrade to Ultra 2 Model 2200 with Creator3D graphics	\$18,800	A*
SERVER UPGRADES			
Any SPARCserver	U-S-UCB2-9S-256CD Chassis upgrade to Ultra Enterprise 2 Model 2200 with 256MB, 4.2GB SCSI-2 disk, and SunCD 12.	\$19,945	A*
SPARCserver 20	US20UCB2-9S-000ND Chassis upgrade to Ultra Enterprise 2 Model 2200 with SunCD 12, no memory, no disk.	\$16,800	A*
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	U12-UCB2-9N-000NN Chassis upgrade to Ultra 2 Model 2200 or Ultra Enterprise 2 Model 2200, no memory, no disk.	\$15,800	A*

NOTES: All Ultra 2 Model 2200 upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

* Maximum discount may apply.

Ultra 2 and Ultra Enterprise 2 - Model 2300

***Ultra 2 Model 2300 with Two 300 MHz UltraSPARC-II Processors
and 2MB External Cache Per Processor:***

Part Number	Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS SYSTEM			
A14-UEC2-1E-256AC	20" color monitor, Creator, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$38,495	A
DESKTOP CREATOR3D GRAPHICS SYSTEMS			
A14-UEC2-1F-256AC	20" color monitor, Creator 3D, 256MB (4 x 64MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$39,495	A
A14-UEC2-1F-001AC	20" color monitor, Creator 3D, 1GB (8 x 128MB SIMMs), 4.2GB 7200 RPM internal Fast/Wide SCSI-2 disk.	\$59,495	A
SERVER CONFIGURATIONS			
A14-UEC2-9S-256CD	Ultra Enterprise 2 Model 2300 server with 256MB, 4.2GB SCSI-2 disk, 644MB SunCD 12	\$36,295	A
A14-UEC2-9S-512CD	Ultra Enterprise 2 Model 2300 server with 512MB, 4.2GB SCSI-2 disk, 644MB SunCD 12	\$44,295	A

NOTES: All Ultra 2 Model 2300 configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

Upgrades on next page.

Ultra 2 and Ultra Enterprise 2 - Model 2300 (Upgrades)

Upgrades to Ultra 2 Model 2300:

From	Part Number and Description	List Price	Discount Category
DESKTOP CREATOR GRAPHICS UPGRADES			
SPARCstation 10	UG10-UEC2-9E-256AC Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, 256MB, 4.2GB fast internal disk	\$32,650	A*
SPARCstation 20	UG20-UEC2-9E-000NN Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, no memory, no disk	\$29,800	A*
SPARCstation 20	UG20-UEC2-9E-000AC Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, 4.2GB internal disk, no memory	\$30,500	A*
Ultra 1 - 140 or 170	UA11-UEC2-9F-000NN Chassis upgrade to Ultra 2 Model 2300 with Creator graphics, no memory, no disk	\$29,300	A*
DESKTOP CREATOR3D GRAPHICS UPGRADES			
SPARCstation 10	UG10-UEC2-9F-256AC Chassis upgrade to Ultra 2 Model 2300 with Creator3D graphics, 256MB, 4.2GB fast internal disk	\$33,650	A*
SPARCstation 20	UG20-UEC2-9F-001AC Chassis upgrade to Ultra 2 Model 2300 with Creator3D graphics, 1.2GB, 4.2GB internal disk	\$49,300	A*
SERVER UPGRADES			
Any SPARCserver	U-S-UEC2-9S-256CD Chassis upgrade to Ultra Enterprise 2 Model 2300 with 256MB, 4.2GB SCSI-2 disk, and SunCD 12.	\$30,450	A*
SPARCserver 20	US20UEC2-9S-000ND Chassis upgrade to Ultra Enterprise 2 Model 2300 with SunCD 12, no memory, no disk.	\$27,300	A*
SPARCstation 20ZX, Ultra 1 - 170E, Ultra Enterprise 1	UA12-UEC2-9N-000NN Chassis upgrade to Ultra 2 Model 2300 or Ultra Enterprise 2 Model 2300, no frame buffer, no memory, no disk	\$26,300	A*

NOTES: All Ultra 2 Model 2300 upgrades require Solaris 2.5.1 or later Solaris 2.x release.

- Sun Ultra 2 systems require 4 identical SIMMs in 4 memory banks.

- The Ultra 2 systems have a wide SCSI connector on the back panel (68-pin). If narrow SCSI devices are to be connected, a conversion cable (50-68 pin) is needed (X903A or X904A). See Accessories section.

- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book.

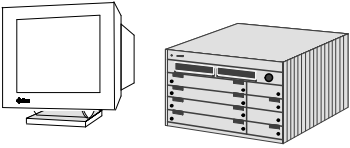
- Type 4 keyboard is not supported.

- Order additional memory, internal or external storage options as separate line items.

* Maximum discount may apply.

Ultra 4000 Creator3D Workstation

Ultra 4000 Creator3D Workstation:

 Ultra 4000 Creator3D			
167 MHz/ 250 MHz			
	1 CPU	6 CPUs	12 CPUs
Performance			
SPECint95	6.60/9.74	N/A	N/A
SPECbase_int95	59/84	336/505	660/1007
SPECfp	9.37/11.70	N/A	N/A
95SPECbase_fp95	83/104	469/586	887/1073
Performance			
Architecture	UltraSPARC		
Clock rate	167 or 250 MHz		
Cache on-chip	16KB I-cache, 16KB D-cache		
Cache external	1MB		
No. of Processors	1-14		
Main Memory	256MB - 14GB		
Memory type	ECC		
DRAM speed	60ns		
Bus width	576 bits		
Disk Capacity			
Maximum internal	16.8GB		
Maximum total	Over 4TB		
I/O Architecture			
SBus slots	2-21		
Graphics (UPA Slots)	1-4		
Serial ports	2 RS-232/RS-423 (2 DB25)		
Parallel ports	1 Centronics compatible (DB25)		
Graphics			
Graphics Proc.	Creator3D (up to 4 frame buffers) standard		
Maximum Options	Up to 4 Creator3D graphics monitors Creator, TGX, TGX+		
Network Ports			
AUI Ethernet	Yes (requires MII adapter)		
Twisted-pair ISDN-FDDI and ATM	Yes (10/100 Mbps) Optional		
Solaris License	Solaris 2.5.1 or later		

Part Number	Description	List Price	Discount Category
A18-1F-256AC	Ultra 4000 Creator3D workstation with 20" color monitor, Creator3D frame buffer, Graphics I/O board, 256MB memory, CPU/Memory board, 4.2GB disk board, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license. NOTE: UltraSPARC CPUs are not included in workstation configuration. Must be ordered separately.	\$71,500	A
A18-1F-001AC	Ultra 4000 Creator3D workstation with 1 GB memory, CPU/Memory board, Graphics I/O board, Creator3D frame buffer, 20" color monitor, 4.2GB disk board, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license. NOTE: UltraSPARC CPUs are not included in workstation configuration. Must be ordered separately.	\$115,250	A
ULTRASPARC MODULES - Minimum Of 1 Required Per System.			
(X)2510A	UltraSPARC module, 167 MHz, 1MB External Cache.	12,000	A
(X)2530A	UltraSPARC module, 250MHz, 1MB External Cache.	\$16,000	A

- Add "X" to order as a standalone option for existing systems.

NOTES: Ultra 4000 Creator3D workstation configurations require Solaris 2.5.1 or later Solaris 2.x release.

- The Ultra 4000 Creator3D workstation is constructed with the same components as the Enterprise 4000 server; therefore, components are interchangeable.
- Mixing of 167-MHz and 250-MHz modules in a single system is not supported.
- Total of 8 slots available for CPU/memory, I/O & disk boards.
- All systems orders that include a monitor must also include a Country Kit; refer to the "Country Kits" section in the End User Price Book

Upgrades on next page.

Ultra 4000 Creator3D Workstation (Upgrades)

Upgrades to Ultra 4000 Creator3D Workstation:

Step 1(required)

Select upgrade based on "Upgrade From" system

UGA14-A18-9F-256AC

Step 2 (required)

Processor Module
Maximum of 2 CPU/memory boards
Minimum of 1 per system upgrade

CHOOSE ONE:

UG-M2510 - 167MHz processor module w/ 1MB E-cache
UG-M2530 - 250MHz processor module w/ 1MB E-cache

Step 3

Memory
Minimum of 1 per system.
Maximum of 14 per system.
Maximum of 2 per CPU/memory board
Minimum requirement may be satisfied with board upgrades in Step 2.

7022A - 256MB (8 X 32MB SIMMs)
7023A - 1GB (8 X 128MB SIMMs)

Step 4

Go to Step4, Enterprise 3000/4000 ordering flow chart for more options

From	Part Number and Description	List Price	Discount Category
SPARCstation 10, SPARCstation 20, UltraSPARC	UGA14-A18-9F-256AC Chassis upgrade to Ultra 4000 Creator3D workstation with Creator3D frame buffer, Graphics I/O board, 256MB memory, CPU/Memory board, 4.2GB disk, SunCD 4, 2 Power/Cooling modules, Country Kit, and Solaris workstation license, no CPU.	\$60,200	A

PROCESSOR MODULE			
SuperSPARC	UG-M2510 167MHz processor module w/ 1MB external cache	\$9,500	A
SuperSPARC	UG-M2530 256MHz processor module w/ 1MB external cache	\$13,500	A

MEMORY			
7022A	256MB (8 X 32MB SIMMs)	\$4,750	A
7023A	1GB (8 X 128MB SIMMs)	\$4,850	A

NOTES:

- The Ultra 4000 Creator3D workstation is constructed with the same components as the Enterprise 4000 server; therefore, components are interchangeable.
- Upgrades require Solaris 2.5.1 or later Solaris 2.x release.